

AMENDMENTS TO THE CLAIMS

1. – 15. (Canceled)

16. (Currently amended) The ~~apparatus of claim 14~~ method of claim 20, wherein the sensor acquires MEG data.

17. (Currently amended) The ~~apparatus of claim 14~~ method of claim 20, wherein the sensor acquires EEG data.

18. (Currently amended) The ~~apparatus of claim 14~~ method of claim 20, wherein the sensor acquires ECG data.

19. (Currently amended) The ~~apparatus of claim 14~~ method of claim 20, wherein the sensor acquires MCG data.

20. (Currently amended) A method of ~~testing~~ evaluation comprising:
acquiring an electromagnetic physiological signal with a sensor on a subject;
performing a source reconstruction of the electromagnetic physiological signal via a signal processing circuit in communication with said sensor, with said circuit being configured to support multiple threads of execution with one thread being a measurement module and a second thread being a source reconstruction module; and

using the source reconstruction to modify the acquisition of a new electromagnetic physiological signal; and

displaying source reconstruction results overlayed onto anatomical data of said patient.